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TITLE: INTONATION CONTROL SYSTEM OF VOICE
SYNTHESIZER

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ABSTRACT:

PURPOSE: To obtain a highly natural synthesized voice by controlling the pitch frequency by synthesized **intonation** with respect to an input sentence and controlling the energy by a base energy pattern.

CONSTITUTION: An **intonation** pattern corresponding to the number of moras is obtained by a sentence processing part 2 at the time of determining **intonation**, and the base energy pattern approximated to a straight line which is

one-dimensionally reduced in accordance with the elapse of time is obtained independently of **intonation** at the time of determining the base energy, and the start value of this pattern is smaller according as the number of moras is smaller. The accent type of a word or clause unit is determined by an accent processing part 3 with respect to determination of the accent type, and the accent type pattern is superposed on the **intonation** pattern and a pause or the like is added to this pattern to obtain a synthesized **intonation** pattern and this pattern is used for pitch frequency control of **phonemes** or syllables to control the pitch frequency in an interpolation processing part 5. Thus, a highly natural synthesized voice is obtained.

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